

Reboot CUT50D

Reboot Plasma Cutter Machine CUT50D User Manual

Model: CUT50D | Brand: Reboot

INTRODUCTION

This user manual provides essential information for the safe and effective operation and maintenance of your Reboot Plasma Cutter Machine CUT50D. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent injury or damage.



Figure 1: Reboot Plasma Cutter Machine CUT50D

SETUP AND CONNECTIONS

Before operating the plasma cutter, ensure all connections are secure and the machine is placed on a stable, level surface. The CUT50D supports automatic dual voltage input (110/120V and 220/240V).

Front Panel Overview



Figure 2: Front Panel Controls and Indicators

Current Display: Shows the current amperage setting.

Faulty Light (O.C): Illuminates to indicate an overcurrent or fault condition.

Power Light: Indicates the machine is powered on.

Current Knob: Adjusts the output amperage.

PSI Suggestion: Recommended air pressure settings for various cutting thicknesses.

Torch Connection: Port for connecting the plasma torch.

Torch Switch: Connector for the torch trigger cable.

Earth Connect: Terminal for connecting the ground clamp.

Rear Panel and Air Connections

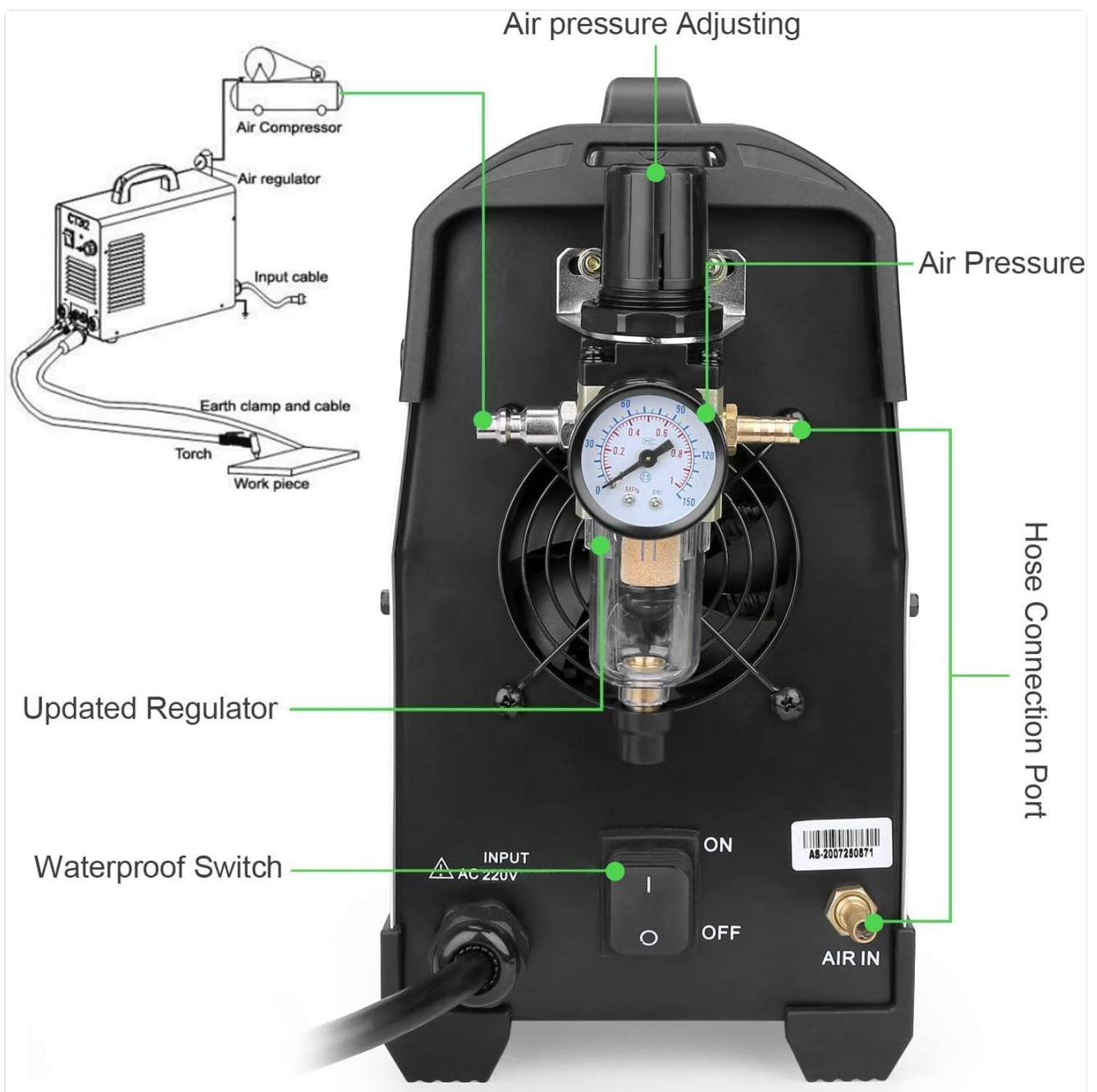


Figure 3: Rear Panel with Air Regulator and Power Switch

Air Pressure Adjusting: Knob to set the air pressure.

Air Pressure Gauge: Displays the current air pressure.

Hose Connection Port (AIR IN): Connects to your air compressor.

Waterproof Switch: Main power switch.

Input Cable: Power input cable.

Connecting the Machine

1. Connect the plasma torch to the front panel's Torch Connection port and the Torch Switch connector.
2. Attach the ground clamp cable to the Earth Connect terminal on the front panel.
3. Connect an air compressor to the Hose Connection Port (AIR IN) on the rear panel. Ensure the air pressure is set according to the material thickness you intend to cut (refer to PSI Suggestion on the front panel).
4. Plug the power input cable into a suitable 110/120V or 220/240V power outlet. The machine automatically detects the voltage. For 220V, a 30A breaker is suggested; for 110V, a 50A breaker is suggested.
5. Turn on the Waterproof Switch on the rear panel. The Power Light on the front panel should illuminate.

OPERATING INSTRUCTIONS

The Reboot CUT50D Plasma Cutter is designed for cutting various metals including stainless steel, alloy, aluminum, mild steel, and carbon steel. It is suitable for automotive, ducting work, repair/maintenance, metal processing, and manufacturing applications.

Cutting Capabilities

The machine offers excellent cutting performance across a range of thicknesses:

- **1/2 inch (12mm) clean cutting** and **3/4 inch (19mm) severance cutting** under 220/240V.
- **2/5 inch (10mm) severance cutting** under 110/120V.
- Recommended air pressure: 60 PSI.

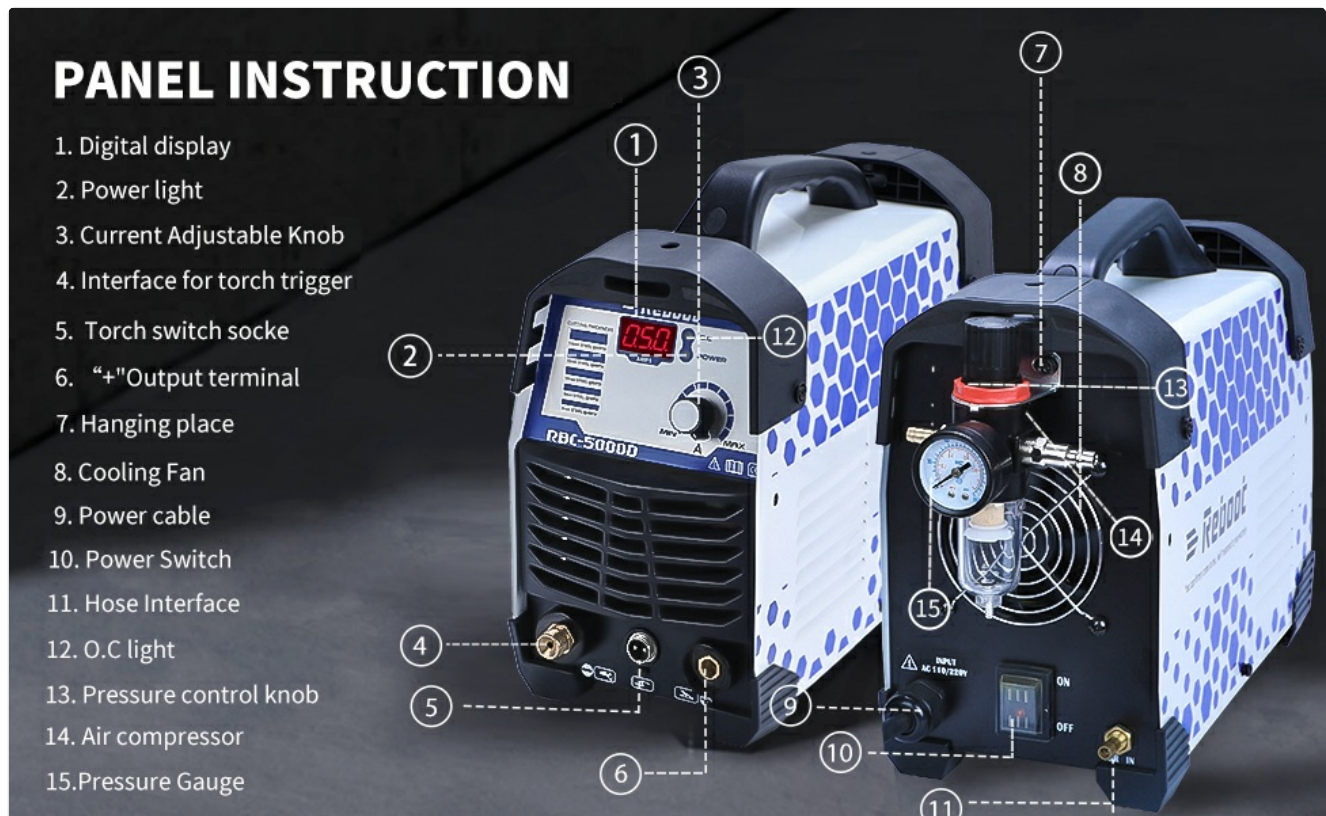


Figure 4: Visual Guide to Cutting Thicknesses

Cutting Procedure

1. Ensure proper safety gear is worn, including a welding helmet, gloves, and protective clothing.
2. Secure the workpiece to be cut and attach the ground clamp firmly to it.
3. Adjust the current knob on the front panel to the desired amperage based on the material type and thickness.
4. Set the air pressure using the regulator on the rear panel to the recommended PSI.
5. Position the plasma torch nozzle close to the starting point of the cut.
6. Press the torch trigger to initiate the plasma arc. Move the torch steadily along the desired cut line.
7. After releasing the torch trigger, the machine will continue blowing air for approximately 3 seconds to cool down the torch head and consumables, extending their lifespan.

Demonstration Videos

Cutting 3/5" (16mm) Plates

Your browser does not support the video tag.

This video demonstrates the Reboot CUT50D plasma cutter's ability to cut through 3/5 inch (16mm) thick metal plates with precision.

Maximum Cutting 4/5" (20mm)

Your browser does not support the video tag.

Observe the machine's capability to achieve a maximum cut of 4/5 inch (20mm) on various metals.

Cutting 2/5" (10mm) Plates

Your browser does not support the video tag.

This video showcases the plasma cutter's performance when cutting 2/5 inch (10mm) thick plates.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your plasma cutter.

- **Consumables:** Regularly inspect the torch consumables (electrode, nozzle, swirl ring, shield cup) for wear and replace them as needed. Worn consumables can affect cut quality and machine performance.
- **Air Filter/Regulator:** Check the air filter/regulator for moisture and debris. Drain any accumulated water and clean or replace the filter element periodically to ensure clean, dry air supply to the torch.
- **Cooling:** Ensure the machine's cooling vents are clear of obstructions to prevent overheating. The internal fan should operate freely.
- **Cables and Connections:** Inspect all cables and connections for damage, fraying, or loose contacts. Repair or replace any damaged components immediately.
- **General Cleaning:** Keep the machine clean and free of dust and metal particles. Use a dry cloth to wipe down the exterior.

Short Service Life, Air Leakage



Updated regulator, well sealed, long life



Figure 5: Updated Regulator for Improved Performance and Longevity

TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
No arc when trigger is pressed	No power, loose connections, worn consumables, insufficient air pressure.	Check power supply and circuit breaker. Ensure all cables are securely connected. Inspect and replace worn torch consumables. Verify air pressure is set correctly.

Problem	Possible Cause	Solution
Poor cut quality / Rough edges	Incorrect amperage or air pressure, worn consumables, torch too far from workpiece, travel speed too fast/slow.	Adjust amperage and air pressure according to material. Replace worn consumables. Maintain proper torch standoff distance. Adjust travel speed for optimal cut.
Overcurrent (O.C.) light on	Overload, short circuit, internal fault.	Reduce amperage or cutting load. Check for short circuits in cables or torch. If problem persists, contact customer support.
Machine not powering on	No power supply, main switch off, internal fuse.	Verify power outlet is active. Ensure main power switch is ON. Check internal fuses (if accessible and safe to do so, otherwise contact support).

SPECIFICATIONS

Feature	Detail
Manufacturer	Reboot-USA
Model Number	plasma cutting equipment 50 Amp (RBC5000D)
Item Weight	18.44 pounds
Product Dimensions	14.17 x 6.3 x 12.2 inches
Color	Green
Material	Stainless Steel
Power Source	DC
Voltage	110/220 Volts (Automatic Dual Voltage)
Cord Length	5 Meters
Included Components	PT31 Plasma Torch
Cutting Current	50 Amp
Ideal Clean Cut (220/240V)	1/2 inch (12mm)
Severance Cut (220/240V)	3/4 inch (19mm)
Severance Cut (110/120V)	2/5 inch (10mm)
Recommended Air Pressure	60 PSI





WARRANTY AND SUPPORT

Reboot offers a **1-year limited warranty** on this plasma cutter. This warranty covers manufacturing defects and ensures free consumables guarantee. For any assistance or warranty claims, please contact Reboot customer support. Local support is available to assist you.

For further information or support, please visit the official Reboot store:[Reboot Store on Amazon](#).

© 2024 Reboot. All rights reserved.

Related Documents - CUT50D

<div><div>Operation Manual</div><div></div><div>RBC-5000DL Cutting Machine</div></div>	<p>Reboot RBC-5000DL Cutting Machine Operation Manual</p> <p>This operation manual provides detailed instructions for the Reboot RBC-5000DL Cutting Machine, covering its features, installation, operation, maintenance, and troubleshooting. It includes technical parameters, safety precautions, and warranty information.</p>
<div><div>Operation Manual</div><div></div><div>Part 1: Machine Introduction</div></div>	<p>Reboot RBM1300 Operation Manual: Your Guide to Advanced Welding</p> <p>Discover the capabilities of the Reboot RBM1300 welding machine. This comprehensive manual covers operation, technical specifications, and troubleshooting for MMA, MIG, and LIFT TIG welding modes.</p>
<div><div>Operation Manual</div><div></div><div>Part 1: Machine Introduction</div></div>	<p>Reboot RBM2000P Operation Manual: Welding Machine Guide</p> <p>Comprehensive operation manual for the Reboot RBM2000P welding machine. Learn about its features, MMA, MIG, and Pulse MIG welding modes, technical specifications, setup, operation, and troubleshooting for efficient welding.</p>
<div><div>Operation Manual</div><div></div><div>Part 1: Machine Introduction</div></div>	<p>Reboot RBM1600 Operation Manual: Your Guide to MMA, MIG, and LIFT TIG Welding</p> <p>Comprehensive operation manual for the Reboot RBM1600 welding machine. Learn to use MMA, MIG (Gas/Gasless), and LIFT TIG modes with detailed instructions, technical specifications, and troubleshooting tips for optimal performance.</p>



Reboot RBM1300 Welding Machine Operation Manual

This manual provides detailed instructions for operating the Reboot RBM1300 welding machine, covering its features, setup, different welding modes (MMA, MIG Gas, MIG Gasless, LIFT TIG), technical specifications, safety precautions, and troubleshooting.



Reboot RBM-1500 Multi-Function Welding Machine Operation Manual

Comprehensive operation manual for the Reboot RBM-1500 multi-function welding machine, detailing its features, setup, operation modes (MMA, MIG, LIFT TIG), technical specifications, and troubleshooting. Learn how to use this IGBT PWM technology welder for various applications.